

CLAIMS

We Claim:

- 1 1. A diagnostic tool comprising:
 - 2 a fax test module, the fax test module including:
 - 3 a telephone connector,
 - 4 a fax modem module, and
 - 5 a phone line emulator;
 - 6 a display; and,
 - 7 a processor that causes menus to be shown on the display, the menus
 - 8 allowing a user to select tests to be performed on a device under test, the tests
 - 9 including:
 - 10 a send fax test, and
 - 11 a receive fax test;
 - 12 wherein the menus list devices that can be tested by the diagnostic tool;
 - 13 and,
 - 14 wherein the menus list at least one device that does not have fax
 - 15 capability and at least one device that does have fax capability.
 - 1 2. A diagnostic tool as in claim 1 wherein
 - 2 the menus additionally include a select test menu and a select product
 - 3 menu.

1 3. A diagnostic tool comprising:

2 an expansion port;

3 a fax test module connected to the expansion port, the fax test module

4 including:

5 a telephone connector,

6 a fax modem module, and

7 a phone line emulator;

8 a display; and,

9 a processor that causes menus to be shown on the display, the menus

10 allowing a user to select tests to be performed on a device under test, the tests

11 including:

12 a send fax test, and

13 a receive fax test.

1 4. A diagnostic tool as in claim 3 wherein

2 the menus include a select product menu and a select test menu.

1 5. A diagnostic tool as in claim 3 wherein

2 the menus include a select category menu, a select product menu and a

3 select test menu.

1 6. A diagnostic tool as in claim 3 wherein

2 wherein the menus list devices that can be tested by the diagnostic tool;
3 and,
4 wherein the menus list at least one device that does not have fax
5 capability and at least one device that does have fax capability.

1 7. A handheld diagnostic tool comprising:
2 power circuitry based on power supplied by battery;
3 a fax test module connected to the expansion port, the fax test module
4 including:
5 a telephone connector,
6 a fax modem module, and
7 a phone line emulator;
8 a display; and,
9 a processor that causes menus to be shown on the display, the menus
10 allowing a user to select tests to be performed on a device under test, the tests
11 including:
12 a send fax test, and
13 a receive fax test.

1 8. A handheld diagnostic tool as in claim 7 wherein
2 the menus include a select product menu and a select test menu.

1 9. A handheld diagnostic tool as in claim 7 wherein
2 the menus include a select category menu, a select product menu and a
3 select test menu.

1 10. A diagnostic tool as in claim 7 wherein
2 wherein the menus list devices that can be tested by the diagnostic tool;
3 and,
4 wherein the menus list at least one device that does not have fax
5 capability and at least one device that does have fax capability.

1 11. A method for testing a device under test (DUT) wherein the DUT
2 includes fax capability, the method comprising:
3 connecting a cable from the DUT to a diagnostic tool; and,
4 sending a fax from the diagnostic tool to the DUT, including the
5 following:
6 emulating, by the diagnostic device over the cable, a phone line to
7 the DUT,
8 performing fax transmission of data from the diagnostic tool to
9 the DUT, and
10 terminating the fax transmission.

1 12. A method as in claim 11 wherein emulating the phone line includes
2 the following:

3 producing an alert signal.

1 13. A method as in claim 11 additionally comprising the following
2 performed before sending the fax:

3 selecting by a user the device under test from a plurality of devices
4 listed on a menu by the diagnostic tool, the plurality of devices including at
5 least one device that does not have fax capability and at least one device that
6 does have fax capability.

1 14. A method for testing a device under test (DUT) wherein the DUT
2 includes fax capability, the method comprising:

3 connecting a cable from the DUT to a diagnostic tool; and,

4 sending a fax from the DUT to the diagnostic tool, including the
5 following:

6 emulating, by the diagnostic device over the cable, a phone line to
7 the DUT,

8 performing fax transmission of data from the DUT to the
9 diagnostic tool, and

10 terminating the fax transmission.

1 15. A method as in claim 14 wherein emulating the phone line includes
2 the following:

3 producing a dial tone; and,
4 receiving a dialed number.

1 16. A method as in claim 14 additionally comprising the following
2 performed before sending the fax:

3 selecting by a user the device under test from a plurality of devices
4 listed on a menu by the diagnostic tool, the plurality of devices including at
5 least one device that does not have fax capability and at least one device that
6 does have fax capability.

1 17. A method as in claim 14 additionally comprising:

2 sending a fax from the diagnostic tool to the DUT, including the
3 following:

4 emulating again, by the diagnostic device, a phone line to the
5 DUT,

6 performing fax transmission of data from the diagnostic tool to
7 the DUT, and

8 terminating the fax transmission.

1 18. A method as in claim 17 wherein emulating again the phone line
2 includes the following:
3 producing an alert signal.

1 19. A method as in claim 17 additionally comprising the following
2 performed before sending the fax:
3 selecting by a user the device under test from a plurality of devices
4 listed on a menu by the diagnostic tool, the plurality of devices including at
5 least one device that does not have fax capability and at least one device that
6 does have fax capability.

1 20. A diagnostic tool comprising:
2 a module means for sending and receiving fax, the module means
3 including:
4 connector means for providing a telephone connection,
5 fax means for producing and receiving fax transmissions, and
6 emulator means for emulating a phone line;
7 display means for displaying menus to a user; and,
8 processing means for controlling display of the menus by the display
9 means, the menus allowing the user to select tests to be performed on a device
10 under test, the tests including:
11 a send fax test, and

12 a receive fax test;

13 wherein the menus list devices that can be tested by the diagnostic tool;

14 and,

15 wherein the menus list at least one device that does not have fax

16 capability and at least one device that does have fax capability.